

Title (en)

Method and apparatus for extracting and recognizing a specific image from an input image signal.

Title (de)

Verfahren und Gerät zum Herausziehen und Erkennen eines spezifizierten Bildes aus einem Bildeingabesignal.

Title (fr)

Appareil et méthode pour extraire/reconnaitre une image specifique lors d'un signal d'image d'entrée.

Publication

EP 0657839 A2 19950614 (EN)

Application

EP 94119409 A 19941208

Priority

- JP 31069493 A 19931210
- JP 31069693 A 19931210
- JP 1859194 A 19940215
- JP 5228694 A 19940323

Abstract (en)

A circumscribing rectangle is obtained for a black continuous image part using a two-tone image signal. If it is determined (in S105) that the image part is possibly one which is obtained as a result of rotating the object, lengths of sides of the image part are compared with threshold values (in S106 and S108). If it is determined (in S105) that the image part is not one which is obtained as a result of rotating the object, the height and horizontal length of the circumscribing rectangle are compared with the threshold values (in S107 and S108). Thus, it is determined (in S115 and S116) whether or not the image part is identical to the object. An RGB chromaticity histogram is produced for each of small regions of an input color image (in S202A). Each of the chromaticity histograms of the small regions is compared with reference ones (in S202A). As a result of the comparison, an identification number of the reference histogram having the highest similarity to that of the small region among those constituting the input image is given to the small region (in S204). A histogram of the identification numbers thus is produced for the input color image (in S204). The thus-produced histogram is used to determine (in S205) which one of a plurality of objects is identical to the input color image. <IMAGE>

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IPC 8 full level

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Cited by

US6888962B1; US5982940A; EP1199673A1; EP0751474A3; US6757428B1; US6298150B1; US6963425B1; US6944331B2; US7039229B2; US7046842B2; WO0113326A3

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